

Art Unit: 1631

CLAIMPTO

WNP

09/28/2004

5. (Currently amended) A carrier protein ~~according to claim 4~~, that comprises a P23TT, P32TT, P21TT, P4Cs PFT3, P30TT, P2TT, HBVnc, HA influenza hemagglutinin (HA), HbsAg and ~~MT~~ influenza matrix (MT) CD4+ T cell epitope epitopes.

6. (Currently amended) A The carrier protein according to claim 4 5, that further comprises a ~~P23TT, P32TT, P21TT, P4Cs, P30TT, P2TT, HBVnc, HA,~~ HbsAg, ~~MT~~ and an hsp70 CD4+ T cell epitope.

33. (Currently amended) A The carrier protein according to claim 5, wherein the CD4+ T cell epitopes are human CD4+ T cell epitopes.

34. (Currently amended) A The carrier protein according to claim 6, wherein the CD4+ T cell epitopes are human CD4+ T cell epitopes.

35. (Currently amended) A The carrier protein according to claim 5, wherein the carrier protein is in an oligomeric form.

36. (Currently amended) A The carrier protein according to claim 6, wherein the carrier protein is in an oligomeric form.

37. (Currently amended) A The carrier protein according to claim 5, conjugated to a polysaccharide.

38. (Currently amended) A The carrier protein according to claim 6, conjugated to a polysaccharide.

41. (Previously presented) A vaccine comprising the carrier protein according to claim 5.

42. (Previously presented) A vaccine comprising the carrier protein according to claim 6.

13. (Currently amended) A ~~The~~ carrier protein according to claim ~~11~~ 37, wherein the polysaccharide is from ~~any one of the following organisms: S. pneumoniae, N. meningitidis, S. aureus, Klebsiella, or S. typhimurium.~~

14. (Currently amended) A ~~The~~ carrier protein according to claim ~~11~~ 37, wherein the polysaccharide is conjugated to the carrier protein by a covalent linkage.

39. (Currently amended) A ~~The~~ carrier protein according to claim 37, wherein the polysaccharide is an *Haemophilus influenzae* type B polysaccharide.

40. (Currently amended) A ~~The~~ carrier protein according to claim 38, wherein the polysaccharide is an *Haemophilus influenzae* type B polysaccharide.

15. (Currently amended) A ~~The~~ carrier protein according to claim ~~11~~ 37, wherein the polysaccharide is conjugated to the carrier protein by reductive amination.

43. (Previously presented) A vaccine comprising the carrier protein according to claim 39.

44. (Previously presented) A vaccine comprising the carrier protein according to claim 40.